

Data Communications editorial index 1981

Compiled by Diana De Arce

APPLICATIONS

Bank data networks F April p. 69
Banks share kiosk nodes in parking lots N Jan. p. 29
Brokers invest in bisync to secure a reliable network F April p. 99
CAD enables rapid dispatch for fighting fires N Feb. p. 40
CBX's main target: The "automated building" D Oct. p. 16
Can a shared net decrease costs and enhance service? N Oct. p. 29
Canadian exchange stocks in a mixed trading network F Feb. p. 71
Capacity of worldwide airlines networks ready to soar N Dec. p. 36
Co-op's net has watt it takes to save energy, money N August p. 28
Common Market mulls gateway N March p. 36
Concentration is the key to TWA's new network F Jan. p. 93
Customs clears joint net N Dec. p. 38
Digital RITA has a military tie N August p. 46
Digital mapping helps stem paper chase F July p. 56
Distributed data processing network sniffs pollution N March p. 32
Drugstore network prescribes warnings that can save lives N Dec. p. 30
Electric utilities have the power to transmit data N August p. 27
Getting on line to conserve energy N March p. 38
How fiber optics reduces a private net's growing pains F March p. 81
IBM speaks softly about voice store-and-forward D Oct. p. 15
Leisure network attracts new breed of user D Nov. p. 16
Lightwave is firm's link to greater productivity F June p. 107
Local network forms DBMS hub N Nov. p. 38
London Stock Exchange bullish about videotex F August p. 105
Multiplexer users shift into high gear N Nov. p. 54
Museum network tracks masterworks N Feb. p. 32
Network aids oil digging N Sept. p. 40
Network eases parts scramble N July p. 38
Network matches candidates to jobs N March p. 34
Network protects against flash floods N June p. 44
Networking tonic for better health care F August p. 55
1981: New and old players set stage

for networking battles F Dec. p. 147
Nodal processor evolves into network mainstay F Oct. p. 81
Noise pollution is network's target N August p. 36
Nuclear net aims to prevent mishaps N Nov. p. 34
Oil concern greases its operation with a new communications network N Oct. p. 49
Order-entry setup saves a firm's life N June p. 42
PTT associates axed in political shuffle D Sept. p. 15
Shopping via a network is no longer just talk N August p. 41
"Super library" has more than literary connections N Nov. p. 30
Survey in U.K. predicts boosted spending for office automation N May p. 44
The automated gas station is up ahead N May p. 40
The first all-in-one local network F August p. 93
The many faces of local networking F Dec. p. 62
Tiny bubble terminal at tip for reporters D Sept. p. 16
Travel network thinks small N Oct. p. 38
User's do-it-yourself POS scheme one step ahead of turnkey offerings N Nov. p. 42
Vacationing fun, sun, and computers N June p. 28
Where is videotex going? F Sept. p. 97
CARRIERS, COMMON
AT&T cuts off popular modems N Sept. p. 38
AT&T on-line test raises newspapers' ire D Jan. p. 16
AT&T plans packet-switching network that could be prelude to ACS N Oct. p. 34
AT&T trying to sidestep Justice Department? D April p. 16
AT&T unveils its own X.25 scheme N Feb. p. 28
AT&T's offspring ends business as usual F March p. 44
Administration should heed Wirth's deregulation ideas E Nov. p. 9
Foreign exchange service can save U.S. dollars F July p. 65
GTE defection could signal demise of rewrite N July p. 27
International record carrier seeks a private audience N Feb. p. 42
Justice Department compromise bodes ill for data communications E Feb. p. 9
Lighting up from the local end out N

July p. 36
Network battle lines begin to form in U.K. N August p. 44
1981: New and old players set stage for networking battles F Dec. p. 147
Overcoming the confusion of connecting to Bell F Dec. p. 137
Phone "hackers": Computer vandals without a cause N Dec. p. 44
Potential common carrier is up in the air D Oct. p. 15
Two U.S. videotex approaches emerge in wake of AT&T "standard" N June p. 32
CARRIERS, SPECIALIZED
Answering a call for data service N Sept. p. 45
British PTT heads wary about "liberalization" NM Oct. p. 61
Can a shared net decrease costs and enhance service? N Oct. p. 29
Commercial Ada programs sent via Telenet D May p. 16
ECOM's postscript may be bad news for the USPS N Sept. p. 29
ECOM, the Postal Service, and free enterprise E Sept. p. 9
Electric utilities have the power to transmit data N August p. 27
Electronic mail options continue to increase N Feb. p. 40
FM has a side that broadcasts more than just music N Nov. p. 44
Future digital electronic message services will pick up where XTEN left off N Oct. p. 30
Germans plan for integrated net N Sept. p. 36
Language is not the only barrier to making a European hook-up N July p. 30
Network battle lines begin to form in U.K. N August p. 44
Network services—too little too late? E July p. 9
New packet-switching network on the horizon? D Jan. p. 15
1981: New and old players set stage for networking battles F Dec. p. 147
PTT cancels its Télématique order D Oct. p. 16
PTT on the defensive as deregulation action begins in the U.K. N Sept. p. 34
PTT prepares analog exodus N Nov. p. 34
Planning sky-high communications NM Sept. p. 59
Potential common carrier is up in the air D Oct. p. 15
SBS chief building network from scratch NM Jan. p. 57
Satellite gear: Lease or purchase? N

Nov. p. 48
Satellites have not met expectations N Nov. p. 48
Telex and TWX may lose the distance factor D Feb. p. 16
Will the French continue their thrust in communications? N June p. 27
XTEN is dead, but the concept is not forgotten D August p. 15
XTEN is short-circuited N June p. 32
CIRCUIT SWITCHING
Germans plan for integrated net N Sept. p. 36
PTT prepares analog exodus N Nov. p. 34

COMMUNICATIONS PROCESSORS

Memorex breaking out of traditional follow-the-leader role D Feb. p. 15
1981: New and old players set stage for networking battles F Dec. p. 147
STC plans challenge to Amdahl D May p. 15
The office's future: CBX or local net? N Feb. p. 30

CONCENTRATORS

"No-Frills" concentrators aimed at 2-, 4-, and 8-channel market; start at \$1,050 NP August p. 113
Nodal processor evolves into network mainstay F Oct. p. 81
The new-breed switching muxes F June p. 100
The new network roles of the statistical mux F June p. 83

DATABASE

DBMS takes on network management F July p. 79
Digital mapping helps stem paper chase F July p. 56
Interface booth battle waged via database D May p. 16
Keeping a stable database N Oct. p. 40
Network aids oil digging N Sept. p. 40
Where is videotex going? F Sept. p. 97

DATAPHONE DIGITAL SERVICE

AT&T cuts off popular modems N Sept. p. 38
1981: New and old players set stage for networking battles F Dec. p. 147

Satellites have not met expectations N Nov. p. 48

DDP HARDWARE

Controller, terminal gain 3270 capabilities NP March p. 125
HP molds its micros for DDP use D March p. 16
More power for distributed processing D Feb. p. 15
1981: New and old players set stage for networking battles F Dec. p. 147

DDP NETWORKING

DDP is security watchdogs' choice N

April p. 50
DDP scheme aimed at nabbing credit card violators D Sept. p. 16
Distributed data processing network sniffs pollution N March p. 32
How to gauge the reliability of tree-shaped nets F May p. 99
Museum network tracks masterworks N Feb. p. 32
1981: New and old players set stage for networking battles F Dec. p. 147
Operating system will expand TI's DDP role D March p. 16
User group takes a hard look at office-automation needs N July p. 36

DDP SOFTWARE

IBM readies Unix for Series/1 D Dec. p. 15
Micronetwork tackles mighty management task D Dec. p. 15

DIGITIZED VOICE

Broadband at base of Wang's far-reaching local network N July p. 30
Making machines talk: Simulated speech, part one F Jan. p. 75
Making machines talk: Simulated speech, part two F Feb. p. 101
1981: New and old players set stage for networking battles F Dec. p. 147
Packet voice is being widely heard N March p. 29
Portable terminal speaks to users N Jan. p. 50

EDITORIAL VIEWPOINT

A novel supply and demand law for data communications E Dec. p. 9
"All in a day's work": Planning an automated office E Oct. p. 9
A forum for data communications professionals E April p. 9
Administration should heed Wirth's deregulation ideas E Nov. p. 9
Cutting corporate travel costs is users' newest challenge E March p. 9
ECOM, the Postal Service, and free enterprise E Sept. p. 9
Hail Columbia, a rebirth of American technical leadership! E May p. 9
Home information service: Delay can be beneficial E August p. 9
IEEE decision places a roadblock in local networking's path E Jan. p. 9
Justice Department compromise bodes ill for data communications E Feb. p. 9
Network services—too little too late? E July p. 9
Socialism will not work for Télématique E June p. 9

ELECTRONIC FUNDS TRANSFER

Electronic funds transfer's report card shows high marks N August p. 38

ELECTRONIC MAIL/MESSAGE

Answering a call for data service N

Sept. p. 45
Congress begins to address the thorny electronic mail issue N May p. 28
Countdown to European satellite services begins, following minor snags N Feb. p. 36
ECOM alliance could quell controversy N Feb. p. 44
ECOM's postscript may be bad news for the USPS N Sept. p. 29
ECOM, the Postal Service, and free enterprise E Sept. p. 9
Electronic directory problems prompt revised version D May p. 15
Electronic mail and protocol conversion lead Transpac services D June p. 15
Electronic mail options continue to increase N Feb. p. 40
Electronic messaging at the heart of office-automation experiment N June p. 38
Future digital electronic message services will pick up where XTEN left off N Oct. p. 30
IBM speaks softly about voice store-and-forward D Oct. p. 15
IBM voices message support N Nov. p. 32
1981: New and old players set stage for networking battles F Dec. p. 147
U.S. starts to piece together a messaging standard N May p. 27
Users may never give ECOM their stamp of approval N Dec. p. 34
What ever happened to the expected boom in low-bit-rate digitizers? N Oct. p. 36

FACSIMILE

Facsimile fits into integrated scheme N Jan. p. 46
Five facsimile machines NP July p. 107
Germans plan for integrated net N Sept. p. 36
PTT cancels its Télématique order D Oct. p. 16
PTT sets stage for desktop faxes N Dec. p. 32
Telex upgrade has a fax connection D Dec. p. 16

INTERCONNECTION/INTERFACING

AT&T unveils its own X.25 scheme N Feb. p. 28
Answering a call for data service N Sept. p. 45
CBX's main target: The "automated building" D Oct. p. 16
Controller-based matrix switch automatically connects CRTs and computers NP Nov. p. 147
Fitting DTEs to an X.21 network link F April p. 135
Gateway processor joins Ethernet and CBXs D Nov. p. 15

IBM speaks softly about voice store-and-forward D Oct. p. 15
 Implementing the X.21 interface F Feb. p. 83
 It's official: IBM gives its support to X.25 in the U.S. N June p. 30
 Modem mix-up ends in patent invalidation after user suit D July p. 16
 Mux is IBM users' bridge to X.25 networks F August p. 79
 Narrowing the local incompatibility gap D Sept. p. 16
 1981: New and old players set stage for networking battles F Dec. p. 147
 Overcoming the confusion of connecting to Bell F Dec. p. 137
 Reality and the proposed OSI standard F June p. 77
 The missing link to full Ethernet compatibility is high-level software N Oct. p. 50
 The tandem talents of X.21 and SNA F March p. 107
 Three on a voice/data interface D Oct. p. 16
 Users take British PTT bill to task N Jan. p. 40
 Videotex networking forges ahead with "Gateway" link D Nov. p. 16
LIGHTWAVE (FIBER OPTICS)
 How fiber optics reduces a private net's growing pains F March p. 81
 Lighting up from the local end out N July p. 36
 Lightwave alternatives begin to brighten N April p. 30
 Lightwave is firm's link to greater productivity F June p. 107
 Lightwave links form groundwork for U.K. digital network N April p. 36
 Optical bus seen for office networks N Jan. p. 30
LOCAL NETWORKS
 A "Worm" and a "Saber" join Xerox's arsenal D June p. 15
 A low-speed local net for under \$100 per station F Dec. p. 81
 A user speaks out: Broadband or baseband for local nets? F Dec. p. 105
 Broadband Ethernet denied by Xerox D Oct. p. 15
 Broadband at base of Wang's far-reaching local network N July p. 30
 Building a local network on proven software F Dec. p. 70
 CATV local net embraces satellite scheme D June p. 16
 CBX unwellings continue at a fast pace N July p. 44
 Does IBM have its eye on ARC? D Sept. p. 15
 Dynamic reconfiguration by a local net's operating system F Dec. p. 88
 Electronic messaging at the heart of office-automation experiment N

June p. 38
 Ethernet's base continues to grow D March p. 16
 Gateway processor joins Ethernet and CBXs D Nov. p. 15
 Highlighting Ethernet grow into the office NM Feb. p. 51
 IBM to enter local-net fray D Feb. p. 15
 IBM widening its local-networking horizons D July p. 15
 Implementing Ethernet from soup to nuts F Dec. p. 74
 "Kayak" researchers strive to spur office automation N May p. 32
 Lighting up from the local end out N July p. 36
 Local network forms DBMS hub N Nov. p. 38
 Local network to reach out over cable TV D Nov. p. 15
 Local networking action has not yet cooled off D August p. 15
 Local-net standard to embrace two access techniques N Jan. p. 29
 Making serviceable software link among local networks D July p. 15
 Micronetwork tackles mighty management task D Dec. p. 15
 Narrowing the local incompatibility gap D Sept. p. 16
 Net/One's answer to packet and circuit switching F Dec. p. 84
 Networking services ride a micro-wave D Sept. p. 15
 New hire brings broadband skill to baseband firm D July p. 15
 1981: New and old players set stage for networking battles F Dec. p. 147
 Optical bus seen for office networks N Jan. p. 30
 Paring a local net with some Apples N Jan. p. 30
 Probing how Ethernet might best serve a user N May p. 36
 RF prescribed for many local links N Sept. p. 30
 Ring nets: Passing the token in local-network circles F Dec. p. 97
 Senate procedures for judging local-net candidates F May p. 75
 Small business local scheme prepares for X.25 D Dec. p. 16
 Survey in U.K. predicts boosted spending for office automation N May p. 44
 The Cambridge ring is still making the rounds N July p. 32
 The Ethernet workstation is a Star D May p. 15
 The Worm turns to take over computer networks N Feb. p. 26
 The first all-in-one local network F August p. 93
 The many faces of local networking F Dec. p. 62
 The microcomputer connection to local networks F Dec. p. 101

The missing link to full Ethernet compatibility is high-level software N Oct. p. 50
 The office's future: CBX or local net? N Feb. p. 30
 Universities set data communications trends F Oct. p. 64
 Unix: An operating system that means business F Oct. p. 101
 User group takes a hard look at office-automation needs N July p. 36
 Vacationing fun, sun, and computers N June p. 28
 Wang ties its office products into the network NP Jan. p. 119
 Which technology will rule the automated office? F Nov. p. 66
 Will Xerox's Ethernet connect with users? D Dec. p. 15
MANAGEMENT / PERSONNEL
 A novel supply and demand law for data communications E Dec. p. 9
 A tool that forecasts effects of network growth F Nov. p. 113
 Computer conference sharpens focus on communications F April p. 129
 Conference centers on productivity, vendor credibility F March p. 91
 HP heading in new direction? D Jan. p. 16
 How to keep software personnel N Sept. p. 48
 How to pick the right people for the project F Nov. p. 97
 Market shines in dim U.S. economy N Dec. p. 48
 Sleuth diagnoses data-security crimes as people problems NM Dec. p. 55
 The B.S. has finally arrived D Jan. p. 16
 The show cannot go on D March p. 15
 Users-group head seeks to influence industry NM August p. 51
MESSAGE SWITCHING
 Countdown to European satellite services begins, following minor snags N Feb. p. 36
 1981: New and old players set stage for networking battles F Dec. p. 147
 Telex upgrade has a fax connection D Dec. p. 16
MICROPROCESSORS / MICROCOMPUTERS
 A "Worm" and a "Saber" join Xerox's arsenal D June p. 15
 A Cyclops is not just a one-eyed giant D Feb. p. 16
 A low-speed local net for under \$100 per station F Dec. p. 81
 A micro age view of networking F May p. 87
 Are these chips falling correctly? D April p. 15
 French firm eyes U.S. packet users N Jan. p. 46

HP molds its micros for DDP use D March p. 16

Leisure network attracts new breed of user D Nov. p. 16

Micronetwork tackles mighty management task D Dec. p. 15

More power for distributed processing D Feb. p. 15

Multiprotocol chip brings true flexibility F August p. 67

1981: New and old players set stage for networking battles F Dec. p. 147

Paring a local net with some Apples N Jan. p. 30

The microcomputer connection to local networks F Dec. p. 101

The small side of IBM N Sept. p. 42

32-bit micros measure up to big tasks N March p. 30

Three on a chip N April p. 56

Vacationing fun, sun, and computers N June p. 28

MICROWAVE, LASER, INFRARED

Avoiding local-loop delays via a laser link N June p. 34

Lightwave modem compatible with IBM graphics setup aids engineering applications NP Sept. p. 127

Networking services ride a microwave D Sept. p. 15

1981: New and old players set stage for networking battles F Dec. p. 147

Planning sky-high communications NM Sept. p. 59

XTEN is dead, but the concept is not forgotten D August p. 15

XTEN is short-circuited N June p. 32

MINICOMPUTERS

Canada embarking on "information gateway," satellite path D July p. 16

Even IBM sometimes opts for ASCII terminals over its 3270s N May p. 38

HP software lets desktops talk with minis NP June p. 115

IBM readies Unix for Series/1 D Dec. p. 15

IBM to enter local-net fray D Feb. p. 15

IBM widening its local-networking horizons D July p. 15

Operating system will expand TI's DDP role D March p. 16

1981: New and old players set stage for networking battles F Dec. p. 147

Scaled down size, boosted storage, and communications capabilities are main DPS 7 features NP Dec. p. 159

Software creates an office-of-the-future environment D Jan. p. 16

MODEMS

AT&T cuts off popular modems N Sept. p. 38

Chipping away at old modems N

Dec. p. 40

Controller-based matrix switch automatically connects CRTs and computers NP Nov. p. 147

Lightwave modem compatible with IBM graphics setup aids engineering applications NP Sept. p. 127

Modem mix-up ends in patent invalidation after user suit D July p. 16

Modem side-channels: Extra data links at low cost F Oct. p. 93

New modem technology said to be "revolutionary" D August p. 16

RF prescribed for many local links N Sept. p. 30

MULTIPLEXING

Finding a better way to multiplex D March p. 16

Multiplexer users shift into high gear N Nov. p. 54

Mux is IBM users' bridge to X.25 networks F August p. 79

The new-breed switching muxes F June p. 100

The new network roles of the statistical mux F June p. 83

NETWORK ARCHITECTURES

A long-awaited standard for heterogeneous nets F Jan. p. 63

AT&T plans packet-switching network that could be prelude to ACS N Oct. p. 34

Broadband Ethernet denied by Xerox D Oct. p. 15

Cable TV firm answers a user's dream D August p. 16

Digital RITA has a military tie N August p. 46

Fitting DTEs to an X.21 network link F April p. 135

Germans jump ahead of ISO to develop their own architecture N April p. 54

How to gauge the reliability of tree-shaped nets F May p. 99

IBM introduces full support D August p. 15

Local network to reach out over cable TV D Nov. p. 15

1981: New and old players set stage for networking battles F Dec. p. 147

Nuclear net aims to prevent mishaps N Nov. p. 34

SNA and X.25 on the agenda for Honeywell, TI D June p. 16

SNA/X.25 package on the horizon D May p. 16

Senate procedures for judging local-net candidates F May p. 75

Shopping via a network is no longer just talk N August p. 41

Software package builds an X.25/SNA networking bridge N May p. 34

The MX network: Designed to work when all else fails F Sept. p. 107

The tandem talents of X.21 and SNA F March p. 107

Travel network thinks small N Oct. p. 38

Universities set data communications trends F Oct. p. 64

Waiting for the marriage of SNA and X.25 F May p. 111

Which technology will rule the automated office? F Nov. p. 66

NETWORK DESIGN/IMPLEMENTATION

A tool that forecasts effects of network growth F Nov. p. 113

A user speaks out: Broadband or baseband for local nets? F Dec. p. 105

"All in a day's work": Planning an automated office E Oct. p. 9

Avoiding local-loop delays via a laser link N June p. 34

Bank data networks F April p. 69

British PTT flays deregulation report cutting agency's power N June p. 36

Broadband net gains greater speed, throughput NP Feb. p. 111

CATV local net embraces satellite scheme D June p. 16

Can a shared net decrease costs and enhance service? N Oct. p. 29

Co-op's net has watt it takes to save energy, money N August p. 28

Common Market mulls gateway N March p. 36

Congress begins to address the thorny electronic mail issue N May p. 28

Digital RITA has a military tie N August p. 46

Digital mapping helps stem paper chase F July p. 56

Does IBM have its eye on ARC? D Sept. p. 15

Electric utilities have the power to transmit data N August p. 27

FM has a side that broadcasts more than just music N Nov. p. 44

French PTT minister "democratizes" Télématique D July p. 16

French banks counting on home information networks N May p. 30

Getting on-line to conserve energy N March p. 38

How to pick the right people for the project F Nov. p. 97

Lightwave links form groundwork for U.K. digital network N April p. 36

Modem side-channels: Extra data links at low cost F Oct. p. 93

Network aids oil digging N Sept. p. 40

Network eases parts scramble N July p. 38

Network matches candidates to jobs N March p. 34

Network protects against flash floods N June p. 44

Networking tonic for better health care F August p. 55

1981: New and old players set stage

for networking battles F Dec. p. 147

Nodal processor evolves into network mainstay F Oct. p. 81

Noise pollution is network's target N August p. 36

Nuclear net aims to prevent mishaps N Nov. p. 34

Oil concern greases its operation with a new communications network N Oct. p. 49

Order-entry setup saves a firm's life N June p. 42

Overcoming the confusion of connecting to Bell F Dec. p. 137

PTT associates axed in political shuffle D Sept. p. 15

Planning the Doomsday network D Feb. p. 15

Private packet net goes public N April p. 32

Protocol conversion—product of profusion F June p. 65

Replacing 3270s without sacrificing functions F Nov. p. 83

Shopping for SNA outside IBM F Jan. p. 85

Simplified steps to optimize data networks F July p. 95

Stressing education in technology NM March p. 61

"Super library" has more than literary connections N Nov. p. 30

Swedes study satellite scheme N May p. 42

The MX network: Designed to work when all else fails F Sept. p. 107

The new-breed switching muxes F June p. 100

Tiny satellite dishes a break to many users N August p. 34

Travel network thinks small N Oct. p. 38

Universities set data communications trends F Oct. p. 64

XTEN is dead, but the concept is not forgotten D August p. 15

XTEN is short-circuited N June p. 32

NETWORK DIAGNOSTICS/CONTROL

A software aid to network reevaluation F March p. 69

DBMS takes on network management F July p. 79

Firm releases X.25/X.75 monitor NP April p. 143

Forming and storing a graphic image D Jan. p. 15

How to gauge the reliability of tree-shaped nets F May p. 99

Modern side-channels: Extra data links at low cost F Oct. p. 93

Probing how Ethernet might best serve a user N May p. 36

Troubleshooting short- and long-haul analog lines F Nov. p. 131

Unix: An operating system that means business F Oct. p. 101

X.25 monitor checks frames and

packets, supports codes at low cost NP Oct. p. 113

NETWORK ECONOMICS

Cable TV firm answers a user's dream D August p. 16

Co-op's net has watt it takes to save energy, money N August p. 28

Foreign exchange service can save U.S. dollars F July p. 65

1981: New and old players set stage for networking battles F Dec. p. 147

Shopping for SNA outside IBM F Jan. p. 85

User group takes a hard look at office-automation needs N July p. 36

PACKET SWITCHING

A look at a popular switching technique F March p. 117

AT&T plans packet-switching network that could be prelude to ACS N Oct. p. 34

Commercial Ada programs sent via Telenet D May p. 16

Electronic mail and protocol conversion lead Transpac services D June p. 15

Firm releases X.25/X.75 monitor NP April p. 143

French firm eyes U.S. packet users N Jan. p. 46

HP will extend its X.25 support D Nov. p. 16

High-level language for easy X.25 updates F Sept. p. 65

IBM gives U.S. users ticket to X.25 networks F Sept. p. 83

International record carrier seeks a private audience N Feb. p. 42

Memorex breaking out of traditional follow-the-leader role D Feb. p. 15

Mux is IBM users' bridge to X.25 networks F August p. 79

Net/One's answer to packet and circuit switching F Dec. p. 84

New packet-switching network on the horizon? D Jan. p. 15

1981: New and old players set stage for networking battles F Dec. p. 147

Packet voice is being widely heard N March p. 29

Potential common carrier is up in the air D Oct. p. 15

Private packet net goes public N April p. 32

Will the French continue their thrust in communications? N June p. 27

X.25 monitor checks frames and packets, supports codes at low cost NP Oct. p. 113

PBX/CBX

AT&T Antelope makes a run for CBX users D June p. 15

CBX enhancement on the horizon D April p. 15

CBX unveilings continue at a fast pace N July p. 44

CBX's main target: The "automated

building" D Oct. p. 16

Gateway processor joins Ethernet and CBXs D Nov. p. 15

Integrated CBX spells hybrid office approach N April p. 29

Integrated CBX to switch between incompatible devices D May p. 15

1981: New and old players set stage for networking battles F Dec. p. 147

The office's future: CBX or local net? N Feb. p. 30

Which technology will rule the automated office? F Nov. p. 66

PROTOCOLS

AT&T unveils its own X.25 scheme N Feb. p. 28

Are these chips falling correctly? D April p. 15

Brokers invest in bisync to secure a reliable network F April p. 99

Canada embarking on "information gateway," satellite path D July p. 16

Caterfone strives to be more than a decision D Oct. p. 15

Controller, terminal gain 3270 capabilities NP March p. 125

Defense Department takes aim at high-level protocols N Jan. p. 38

Electronic mail and protocol conversion lead Transpac services D June p. 15

Even IBM sometimes opts for ASCII terminals over its 3270s N May p. 38

IBM introduces full support D August p. 15

Integrated CBX to switch between incompatible devices D May p. 15

It's official: IBM gives its support to X.25 in the U.S. N June p. 30

Math and simulation tools for testing HDLC options F April p. 111

Multiprotocol chip brings true flexibility F August p. 67

Multipurpose processor bridges async-to-sync gap D Dec. p. 16

Mux is IBM users' bridge to X.25 networks F August p. 79

1981: New and old players set stage for networking battles F Dec. p. 147

Private, public link is videotex key N May p. 44

Protocol conversion—product of profusion F June p. 65

Reality and the proposed OSI standard F June p. 77

Replacing 3270s without sacrificing functions F Nov. p. 83

SNA and X.25 on the agenda for Honeywell, TI D June p. 16

SNA/X.25 package on the horizon D May p. 16

Software package builds an X.25/SNA networking bridge N May p. 34

Three on a voice/data interface D

Oct. p. 16
 Waiting for the marriage of SNA and X.25 F May p. 111

REGULATIONS, INTERNATIONAL
 British PTT flays deregulation report cutting agency's power N June p. 36
 British PTT heads wary about "liberalization" NM Oct. p. 61
 Congressman fights deregulation NM Nov p. 63
 Fighting against data flow abuse NM April p. 63
 French PTT minister "democratizes" Télématique D July p. 16
 Germany's videotex scheme includes data processing plan N Jan. p. 44
 Language is not the only barrier to making a European hook-up N July p. 30
 Network battle lines begin to form in U.K. N August p. 44
 1981: New and old players set stage for networking battles F Dec. p. 147
 One worldwide videotex standard appears unlikely D Dec. p. 16
 PTT on the defensive as deregulation action begins in the U.K. N Sept. p. 34
 U.S. starts to piece together a messaging standard N May p. 27
 Users take British PTT bill to task N Jan. p. 40

REGULATIONS, NATIONAL
 AT&T separation at heart of expected Houses bill N Dec. p. 29
 AT&T trying to sidestep Justice Department? D April p. 16
 AT&T's offspring ends business as usual F March p. 44
 Beware of catch in Reagan's lease plan N Dec. p. 47
 Caterfone strives to be more than a decision D Oct. p. 15
 Congress begins to address the thorny electronic mail issue N May p. 28
 Congress has not forgotten about communications legislation N April p. 40
 Electronic funds transfer's report card shows high marks N August p. 38
 GTE defection could signal demise of rewrite N July p. 27
 Government: No new data communications gear D March p. 15
 IBM reorganization made in face of antitrust suit D Nov. p. 15
 Justice Department compromise bodes ill for data communications E Feb. p. 9
 Language is not the only barrier to making a European hook-up N July p. 30
 New FCC chief is learning data communications NM June p. 59

1981: New and old players set stage for networking battles F Dec. p. 147
 Telex and TWX may lose the distance factor D Feb. p. 16
 U.S. starts to piece together a messaging standard N May p. 27
 Users and vendors balk at landmark deregulation bill N Nov. p. 29
 Users-group head seeks to influence industry NM August p. 51

SATELLITES
 CATV local net embraces satellite scheme D June p. 16
 Canada embarking on "information gateway," satellite path D July p. 16
 Countdown to European satellite services begins, following minor snags N Feb. p. 36
 IBM looking for an SBS in Europe D August p. 15
 Networking services ride a micro-wave D Sept. p. 15
 1981: New and old players set stage for networking battles F Dec. p. 147
 SBS chief building network from scratch NM Jan. p. 57
 SBS satellite is not alone D April p. 15
 Satellite gear: Lease or purchase? N Nov. p. 48
 Satellites have not met expectations N Nov. p. 48
 Swedes study satellite scheme N May p. 42
 Tiny satellite dishes a break to many users N August p. 34

SECURITY
 DDP is security watchdogs' choice N April p. 50
 DDP scheme aimed at nabbing credit card violators D Sept. p. 16
 Electronic funds transfer's report card shows high marks N August p. 38
 Fighting against data flow abuse NM April p. 63
 1981: New and old players set stage for networking battles F Dec. p. 147
 Phone "hackers": Computer vandals without a cause N Dec. p. 44
 Sleuth diagnoses data-security crimes as people problems NM Dec. p. 55
 Software's niche in data security continues to grow N August p. 32

SOFTWARE
 A programming language for networks F July p. 70
 A software aid to network reevaluation F March p. 69
 Answers to software problems of the 1980s F May p. 57
 Building a local network on proven software F Dec. p. 70
 Commercial Ada programs sent via

Telenet D May p. 16
 DBMS takes on network management F July p. 79
 Dynamic reconfiguration by a local net's operating system F Dec. p. 88
 Forming and storing a graphic image D Jan. p. 15
 HP software lets desktops talk with minis NP June p. 115
 High-level language for easy X.25 updates F Sept. p. 65
 How to keep software personnel N Sept. p. 48
 IBM poised to embrace Ada D April p. 15
 Keeping a stable database N Oct. p. 40
 Making a serviceable software link among local networks D July p. 15
 More power for distributed processing D Feb. p. 15
 More software packages sought N August p. 30
 1981: New and old players set stage for networking battles F Dec. p. 147
 Operating system will expand TI's DDP role D March p. 16
 Pascal modification puts the software before the hardware N April p. 34
 Reversing the hardware, software roles NM May p. 51
 Ring nets: Passing the token in local network circles F Dec. p. 97
 Simplified steps to optimize data networks F July p. 95
 Small business local scheme prepares for X.25 D Dec. p. 16
 Software costs built into hardware N July p. 42
 Software creates an office-of-the-future environment D Jan. p. 16
 Software package builds an X.25/SNA networking bridge N May p. 34
 Software price increases portend industry trend N Feb. p. 25
 Software's niche in data security continues to grow N August p. 32
 The DOD combats software deficiencies D Nov. p. 15
 The Worm turns to take over computer networks N Feb. p. 26
 The missing link to full Ethnernet compatibility is high-level software N Oct. p. 50
 Unix: An operating system that means business F Oct. p. 101
 Waiting for the marriage of SNA and X.25 F May p. 111

STANDARDS
 A long-awaited standard for heterogeneous nets F Jan. p. 63
 Caterfone strives to be more than a decision D Oct. p. 15
 Compromise on videotex standard reach in Europe D June p. 16

Defense Department takes aim at high-level protocols N Jan. p. 38
 Fitting DTEs to an X.21 network link F April p. 135
 Germans jump ahead of ISO to develop their own architecture N April p. 54
 HP will extend its X.25 support D Nov. p. 16
 High-level language for easy X.25 updates F Sept. p. 65
 IBM gives U.S. users ticket to X.25 networks F Sept. p. 83
 IBM introduces full support D August p. 15
 IEEE decision places a roadblock in local networking's path E Jan. p. 9
 Implementing the X.21 interface F Feb. p. 83
 It's official: IBM gives its support to X.25 in the U.S. N June p. 30
 Local-net standard to embrace two access techniques N Jan. p. 29
 Narrowing the local incompatibility gap D Sept. p. 16
 1981: New and old players set stage for networking battles F Dec. p. 147
 Reality and the proposed OSI standard F June p. 77
 The tandem talents of X.21 and SNA F March p. 107
 Tiny bubble terminal at tip for reporters D Sept. p. 16
 Users-group head seeks to influence industry NM August p. 51
 Videotex factions meet head to head N Oct. p. 34
 Videotex norm quickly embraced N July p. 40
 X.25 monitor checks frames and packets, supports codes at low cost NP Oct. p. 113

TELECONFERENCING
 A Cyclops is not just a one-eyed giant D Feb. p. 16
 Cutting corporate travel costs is users' newest challenge E March p. 9
 Forming and storing a graphic image D Jan. p. 15
 Portable teleconferencing compresses costs D Jan. p. 15

TERMINALS/PRINTERS
 "Kayak" researchers strive to spur office automation N May p. 32
 A "Worm" and a "Saber" joint Xerox's arsenal D June p. 15
 Controller-based matrix switch automatically connects CRTs and computers NP Nov. p. 147
 Electronic directory problems prompt revised version D May p. 15
 Even IBM sometimes opts for ASCII terminals over its 3270s N May p. 38
 French PTT minister "democratizes" Télématique D July p. 16

Graphics terminal gains intelligence, speed NP May p. 121
 HP software lets desktops talk with minis NP June p. 115
 Interface booth battle waged via database D May p. 16
 Magnetic-circuit scheme key to ultra-fast printer D April p. 16
 Networking tonic for better health care F August p. 55
 PTT cancels its Télématique order D Oct. p. 16
 Portable terminal speaks to users N Jan. p. 50
 Replacing 3270s without sacrificing functions F Nov. p. 83
 Sony finds its niche D Jan. p. 15
 Survey in U.K. predicts boosted spending for office automation N May p. 44
 Telidon inventor has hopes for graphics' lure NM July p. 51
 The Ethernet workstation is a Star D May p. 15
 The automated gas station is up ahead N May p. 40
 The small side of IBM N Sept. p. 42
 Tiny bubble terminal at tip for reporters D Sept. p. 16
 Tiny satellite dishes a break to many users N August p. 34
 User's do-it-yourself POS scheme one step ahead of turnkey offerings N Nov. p. 42
 Wang ties its office products into the network NP Jan. p. 119
 Will the French continue their thrust in communications? N June p. 27

VIDEOTEX
 AT&T on-line test raises newspapers' ire D Jan. p. 16
 Communications invades the home front F Feb. p. 56
 Compromise on videotex standard reached in Europe D June p. 16
 Electronic directory problems prompt revised version D May p. 15
 French banks counting on home information networks N May p. 30
 French videotex experiment under fire on eve of its implementation N April p. 49
 Germany's videotex scheme includes data processing plan N Jan. p. 44
 Home information service: Delay can be beneficial E August p. 9
 Keeping videotex out of politics D March p. 15
 London Stock Exchange bullish about videotex F August p. 105
 1981: New and old players set stage for networking battles F Dec. p. 147
 Private, public link is videotex key N May p. 44
 Shopping via a network is no longer just talk N August p. 41

Telidon inventor has hopes for graphics' lure NM July p. 51
 Two U.S. videotex approaches emerge in wake of AT&T "standard" N June p. 32
 Videotex factions meet head to head N Oct. p. 34
 Videotex networking forges ahead with "Gateway" link D Nov. p. 16
 Videotex norm quickly embraced N July p. 40
 Where is videotex going? F Sept. p. 97

VOICE SYNTHESIS/RESPONSE
 Leisure network attracts new breed of user D Nov. p. 16
 Making machines talk: Simulated speech, part one F Jan. p. 75
 Making machines talk: Simulated speech, part two F Feb. p. 101
 1981: New and old players set stage for networking battles F Dec. p. 147
 Packet voice is being widely heard N March p. 29
 Portable terminal speaks to users N Jan. p. 50
 What ever happened to the expected boom in low-bit-rate digitizers? N Oct. p. 36

WORD PROCESSING
 "All in a day's work": Planning an automated office E Oct. p. 9
 1981: New and old players set stage for networking battles F Dec. p. 147

Note: Following are abbreviations used throughout the Index that refer to the section of this magazine in which the original appeared:

D = Dataletter
 F = Feature
 N = Newsfront
 NM = Newsmaker
 NP = New Products
 E = Editorial Viewpoint

Reprints of this Index or any other article can be purchased for \$4 plus 50 cents a page. Regular rates of \$5 per article apply for selections already available through the DATA COMMUNICATIONS Reprint Department. When requesting a reprint, please specify the title of the article, date of issue, page number, and author (where possible). Price will be set at the lowest rate available at the time the order is placed.